

99689-00019

Appln. No.: 10/082,476
Amendment Dated July 18, 2005
Reply to Office Action of January 18, 2005

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Currently Amended) A cell-free composition for the modification of DNA sequence comprising:
 - a. A duplex DNA comprising ~~an antibiotic resistance gene or a lacZ gene, wherein said antibiotic resistance gene or said LacZ gene contains~~ a target sequence;
 - b. an oligonucleotide capable of introducing a site specific, predetermined change in said target sequence, wherein said oligonucleotide comprises a single stranded oligonucleotide;
 - c. a cell-free extract of a plant cell and
 - d. a reaction buffer;wherein the duplex DNA is a plasmid, bacteriophage, or bacterial artificial chromosome.
14. (Previously Presented) The composition of claim 13, wherein said oligonucleotide comprises at least 20 and less than or equal to 200 nucleotides.
15. (Cancelled)
16. (Previously Presented) The composition of claim 13, wherein said oligonucleotide comprises a single 3' end and a single 5' end.
17. (Currently Amended) The composition of claim 13, wherein said ~~antibiotic resistance gene or said lacZ gene~~ duplex DNA is a portion of a gene of interest that is

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operably linked to a promoter, so that said gene of interest can be expressed in a host organism.

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Previously Presented) The composition of claim 13, wherein said oligonucleotide comprises a contiguous single-stranded self-complementary oligonucleotide having a 3' end and a 5' end, wherein said 3' end and said 5' end are juxtaposed and wherein at least five contiguous nucleotides are Watson-Crick base paired, the sequence of said oligonucleotide comprising a template for said modified DNA sequence.

30. (Currently Amended) The composition of claim 29, wherein said ~~antibiotic resistance gene or said lacZ gene~~ duplex DNA is a portion of a gene of interest that is operably linked to a promoter, so that said gene of interest can be expressed in a host organism.

31. (Previously Presented) The composition of claim 30, wherein said duplex DNA is a plasmid.

32. (Previously Presented) The composition of claim 17, wherein said duplex DNA is a plasmid.

33. (New) A cell-free composition for the modification of DNA sequence comprising:

- a. A duplex DNA comprising a target sequence;
 - b. an oligonucleotide capable of introducing a site specific, predetermined change in said target sequence, wherein said oligonucleotide comprises a DNA duplex;
 - c. a cell-free extract of a plant cell and
 - d. a reaction buffer;
- wherein the duplex DNA is a plasmid, bacteriophage, or bacterial artificial chromosome.
34. (New) The composition of claim 33, wherein said oligonucleotide comprises at least 20 and less than or equal to 200 nucleotides.

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35. (New) The composition of claim 33, wherein said oligonucleotide comprises at least 10 and less than or equal to 100 Watson-Crick nucleotide pairs.
36. (New) The composition of claim 33, wherein said oligonucleotide comprises a single 3' end and a single 5' end.
37. (New) The composition of claim 33, wherein said duplex DNA is a portion of a gene of interest that is operably linked to a promoter, so that said gene of interest can be expressed in a host organism.
38. (New) The composition of claim 33, wherein said oligonucleotide comprises a contiguous single-stranded self-complementary oligonucleotide having a 3' end and a 5' end, wherein said 3' end and said 5' end are juxtaposed and wherein at least five contiguous nucleotides are Watson-Crick base paired, the sequence of said oligonucleotide comprising a template for said modified DNA sequence.
39. (New) The composition of claim 38, wherein said duplex DNA is a portion of a gene of interest that is operably linked to a promoter, so that said gene of interest can be expressed in a host organism.
40. (New) The composition of claim 39 wherein said duplex DNA is a plasmid.
41. (New) The composition of claim 37 wherein said duplex DNA is a plasmid.